

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	4300	XML and document\$1 and creat\$4 and tag\$1 and edit\$4	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/09/05 12:25
S2	1856	tree and S1	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/01/23 16:27
S3	8	(tree adj pattern)and S1	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/01/23 16:34
S4	455	DTD and S2	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/01/23 16:23
S5	376	modif\$5 and S4	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/01/23 17:04
S6	0	("2004/0268236").URPN.	USPAT	OR	ON	2006/01/23 16:31
S7	2446	(715/513).CCLS.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/01/23 16:34
S8	32	score and S5	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/01/23 16:34
S9	2	("20040103091").PN.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/07/27 20:03
S10	2826	(715/513).CCLS.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/09/05 12:25
S11	126	(715/508).CCLS.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/09/05 12:26
S12	1	template\$1 SAME tag\$1 SAME scor\$3 SAME fragment\$1 SAME criteria SAME (optimal NEAR\$3 tag)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/09/05 12:31

*AD 3/18/07*

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S13	5	template\$1 SAME scor\$3 SAME fragment\$1 SAME criteria SAME (optimal NEAR\$3 tag)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/09/05 12:30
S14	12	template\$1 SAME scor\$3 SAME criteria SAME (optimal NEAR\$3 tag)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/09/05 12:30
S15	7162	template\$1 AND tag\$1 AND scor\$3 AND fragment\$1 AND criteria AND (optimal NEAR\$3 tag)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/09/05 12:34
S16	5492	S15 and @ad<"20030627"	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/09/05 12:48
S17	298	S16 and (format and pars\$3 and (sample NEAR\$2 document\$1))	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/09/05 12:51
S18	298	S17 and ((fragment or tag) NEAR\$3 suggestion)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/09/05 12:39
S19	6719	S15 and (@ad<"20030627" or @rlad<"20030627")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/17 22:41
S20	442	S19 and (format and pars\$3 and (sample NEAR\$2 document\$1))	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/09/05 12:44
S21	442	S20 and ((fragment or tag) NEAR\$3 suggestion)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/08 09:55
S22	31	S21 and (particular NEAR3 format)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/09/05 12:41
S23	12	S18 and (particular NEAR3 format)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/09/05 12:41
S24	6670	S19 and (structure\$1 NEAR\$3 document)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/09/05 12:44

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S25	442	S24 and (format and pars\$3 and (sample NEAR\$2 document\$1))	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/09/05 12:45
S26	2751	S10 and (sample NEAR\$2 data)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/09/05 12:45
S27	442	S25 and (sample NEAR\$2 data)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/09/05 12:47
S28	19	(structure\$2 NEAR\$2 document\$1) SAME template\$1 SAME tag\$1 SAME criteria	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/09/05 12:50
S29	14	S28 and @ad<"20030627"	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/12 16:20
S30	1	(structure\$2 NEAR\$2 document\$1) SAME template\$1 SAME tag\$1 SAME criteria SAME score	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/09/05 12:50
S31	6687	(structure\$2 NEAR\$2 document\$1) AND template\$1 AND tag\$1 AND criteria AND score	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/09/05 12:50
S32	807	S31 and (format\$4 and pars\$3 and (sample NEAR\$2 (document\$1 or data)))	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/09/05 12:52
S33	807	S32 and ((fragment or tag) NEAR\$3 suggestion)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/09/05 13:01
S34	481	S33 and @ad<"20030627"	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/09/05 13:03
S35	481	S34 and (structure\$1 NEAR\$3 (sample NEAR\$2 document))	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/09/05 12:55
S36	807	S32 and ((optimal or best) NEAR\$3 (tag or template))	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/09/05 13:02

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S37	481	S36 and @ad<"20030627"	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/09/05 13:34
S38	29	("4599692"   "4769716"   "5020112"   "5237627"   "5303313"   "5321773"   "5493688"   "5526444"   "5539839").PN. OR ("5689620"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/05 13:28
S39	26	("3233219"   "4769716"   "5303313"   "5321773"   "5438630"   "5440651"   "5469512"   "5526444"   "5542006"   "5566247"   "5577166").PN. OR ("5706364"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/05 13:28
S40	2	("20040249795").PN.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/09/05 13:41
S41	2	("20040103091").PN.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2006/09/05 13:41
S42	217548	((fragment or tag) NEAR\$3 suggestion) and optimal	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/08 09:57
S43	736	((fragment or tag) NEAR\$3 suggestion) and (optimal NEAR5 tag)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/08 11:15
S44	587	S43 and (@ad<"20030627" or @rlad<"20030627")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/08 11:16
S45	21	S44 and (tag\$1 NEAR5 rule\$1)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/08 09:59
S46	15	("20020061133"   "5327262"   "5369507"   "5765029"   "5778156"   "5850474"   "5852678"   "5881166"   "5909537"   "6137907"   "6240205"   "6424724"   "6516091").PN. OR ("6625312"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/08 10:10
S47	15	S46 and (@ad<"20030627" or @rlad<"20030627")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/08 10:32

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S48	2	(optimal NEAR5 tag) and (fragment NEAR4 content)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/08 10:18
S49	366	(optimal NEAR5 tag) and (document NEAR4 (fragment or content))	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/08 10:18
S50	358	S49 and (@ad<"20030627" or @rlad<"20030627")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/08 10:19
S51	0	S50 and (suggestion)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/08 10:19
S52	346	S50 and (rule\$1)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/08 10:20
S53	3	S50 and (analyz\$5 and (document NEAR4 (fragment or content)))	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/17 22:42
S54	3	S50 and (analyz\$5 and (fragment or content))	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/08 11:18
S55	24	("4741046"   "5073953"   "5327262"   "5699453"   "5765029"   "5767978"   "5778156"   "5848185"   "5850474"   "5956468"   "6175650"   "6198850"   "6240205"   "6268935"   "6307962"   "6337917"   "6466693"   "6493463"   "6516091"   "6587115"   "6625312"   "6636331"   "6639692"   "6650439").PN. OR ("7039232"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/08 10:26
S56	24	S55 and (@ad<"20030627" or @rlad<"20030627")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/08 10:41
S57	736	((fragment or tag) NEAR\$3 (suggestion or criteria)) and (optimal NEAR5 tag)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/08 10:41

## EAST Search History

S58	736	((fragment or tag) NEAR\$3 (suggestion or criteria or rule)) and (optimal NEAR5 tag)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/08 10:41
S59	587	S58 and (@ad<"20030627" or @rlad<"20030627")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/08 10:41
S60	0	("2004/0205561").URPN.	USPAT	OR	ON	2007/03/08 11:14
S61	1734	((fragment or tag) NEAR\$3 suggestion) and (optim\$8 NEAR5 tag)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/08 11:15
S62	1215	S61 and (@ad<"20030627" or @rlad<"20030627")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/08 11:16
S63	26	S62 and (analyz\$5 NEAR4 (fragment or content))	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/12 10:45
S64	464	(fragment or content) and (tag\$4 NEAR (suggestion\$1 or rule\$1))	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/12 10:46
S65	373	S64 and (@ad<"20030627" or @rlad<"20030627")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/12 10:48
S66	211	S65 and optim\$7	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/12 10:50
S67	0	("2006/0242266").URPN.	USPAT	OR	ON	2007/03/12 16:18
S68	4	(generic NEAR2 document) same conver\$5 same (structure\$1 ADJ document)	USPAT	OR	ON	2007/03/12 16:26
S69	4	S68 and (@ad<"20030627" or @rlad<"20030627")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/12 16:28
S70	390	((generic or un\$structure\$1 or text) adj document) and (conver\$5 or translat\$3) and (structure\$1 ADJ document)	USPAT	OR	ON	2007/03/12 16:40

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S71	372	S70 and (@ad<"20030627" or @rlad<"20030627")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/12 16:41
S72	221	"L1" and (tag\$4 and (rule\$1 or criteria) and suggestion)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/12 16:30
S73	15	S71 and (tag\$4 and (rule\$1 or criteria) and suggestion)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/12 18:17
S74	375	((generic or un\$structure\$1 or text) adj document) and ((conversion or convert\$4) or translat\$3) and (structure\$1 ADJ document)	USPAT	OR	ON	2007/03/12 18:16
S75	357	S74 and (@ad<"20030627" or @rlad<"20030627")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/12 18:17
S76	66	S75 and fragment\$1	USPAT	OR	ON	2007/03/12 17:06
S77	39	S76 and tag	USPAT	OR	ON	2007/03/12 17:06
S78	17	("5265065"   "5642502"   "5794050"   "5809496"   "5813002"   "5864846"   "5870740"   "5907840"   "5966686"   "5983216"   "5987446"   "5987457"   "5995922"   "6006221"   "6076051").PN. OR ("6901399").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/12 17:13
S79	17	S78 and (@ad<"20030627" or @rlad<"20030627")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/12 17:36
S80	99	("4358824"   "4384329"   "4417321"   "4506326"   "4773009").PN. OR ("4965763").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/12 17:36
S81	98	S80 and (@ad<"20030627" or @rlad<"20030627")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/12 18:13
S82	5	S81 and ((generic or un\$structure\$1 or text) adj document) and ((conversion or convert\$4) or translat\$3) and (structure\$1 ADJ document)	USPAT	OR	ON	2007/03/12 17:37
S83	27	("4358824"   "4751740"   "4965763"   "4970665"   "5159667"   "5173853"   "5323312").PN. OR ("5438657").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/12 17:44

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S84	27	S83 and (@ad<"20030627" or @rlad<"20030627")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/12 17:44
S85	99	("4723209"   "4734858"   "5107419"   "5283887"   "5299305"   "5438657"   "5485369"   "5490242"   "5566289"   "5608874"   "5708828"   "5732400"   "5778359"   "5781914"   "5860073"   "5909492"   "5918238"   "5956033"   "5963966").PN. OR ("6336124").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/12 18:13
S86	98	S85 and (@ad<"20030627" or @rlad<"20030627")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/12 18:13
S87	207	((generic or un\$structure\$1 or text) adj document) and ((conversion or convert\$4) or translat\$3) and (structure\$1 ADJ document) and tag\$1	USPAT	OR	ON	2007/03/12 18:17
S88	203	S87 and (@ad<"20030627" or @rlad<"20030627")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/12 18:17
S89	14	S88 and ((rule\$1 or criteria) and suggestion)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/12 18:17
S90	2	("6014680").PN.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/03/13 12:09
S91	38	("5587902"   "5655130"   "5669005"   "5669007"   "5694609"   "5920879"   "5956726").PN. OR ("6014680").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/13 12:10
S92	38	S91 and (@ad<"20030627" or @rlad<"20030627")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/13 12:11
S93	22609	tag and score	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/17 22:43
S94	1763	tag SAME score	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/16 23:07



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S95	1378	S94 and (@ad<"20030627" or @rlad<"20030627")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/16 16:20
S96	25	S95 and ((convert\$3 or conversion or generat\$3) and un\$structured and structured)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/16 16:22
S97	13	("5832439"   "5890123"   "5893064"   "6133909"   "6199034"   "6199067"   "6236395"   "6314398"   "6324512").PN. OR ("6513006").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/16 23:05
S98	12	S97 and (@ad<"20030627" or @rlad<"20030627")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/16 23:06
S99	1	S98 and (tag SAME score)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/16 23:07
S100	2	"20040268236"	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/17 11:14
S101	3144	(715/513).CCLS.	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2007/03/17 22:41
S102	2516	S101 and (@ad<"20030627" or @rlad<"20030627")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/17 22:42
S103	358	S102 and (analyz\$5 and (document NEAR4 (fragment or content)))	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/17 22:42
S104	22	S103 and (tag and score)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/03/17 22:43



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Relevance scale ☐ ☐ ☐ ☐ ☐1 [Document structure and content analysis 1: Structuring documents according to their](#)[table of contents](#)

Hervé Déjean, Jean-Luc Meunier

November 2005 **Proceedings of the 2005 ACM symposium on Document engineering DocEng '05**

Publisher: ACM Press

Full text available: [pdf\(544.22 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we present a method for structuring a document according to the information present in its Table of Contents. The detection of the ToC as well as the determination of the parts it refers to in the document body rely on a series of generic properties characterizing any ToC, while its hierarchization is achieved using clustering techniques. We also report on the robustness and performance of the method before discussing it, in light of related work.

**Keywords:** document structuring, table of contents recognition2 [XTRACT: a system for extracting document type descriptors from XML documents](#)

Minos Garofalakis, Aristides Gionis, Rajeev Rastogi, S. Seshadri, Kyuseok Shim

May 2000 **ACM SIGMOD Record, Proceedings of the 2000 ACM SIGMOD international conference on Management of data SIGMOD '00**, Volume 29 Issue 2

Publisher: ACM Press

Full text available: [pdf\(209.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

XML is rapidly emerging as the new standard for data representation and exchange on the Web. An XML document can be accompanied by a *Document Type Descriptor* (DTD) which plays the role of a schema for an XML data collection. DTDs contain valuable information on the structure of documents and thus have a crucial role in the efficient storage of XML data, as well as the effective formulation and optimization of XML queries. In this paper, we propose XTRACT, a novel system for inferring a ...

3 [XML: XML screamer: an integrated approach to high performance XML parsing, validation and deserialization](#)

Margaret G. Kostoulas, Morris Matsa, Noah Mendelsohn, Eric Perkins, Abraham Heifets, Martha Mercaldi

May 2006 **Proceedings of the 15th international conference on World Wide Web**